



PATENT
U.S. PATENT APPLICATION SERIAL NO.: 09/462,109
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Masahiko HIROSE et al. Art Unit : 1771
Serial No.: 09/462,109 Examiner : Roche, L.M.
Filed : 12/30/1999
Title : COMPOSITE REVERSE OSMOSIS MEMBRANE AND METHOD FOR
PRODUCING SAME

Assistant Commissioner for Patents
Washington, DC 20231



22511
PATENT & TRADEMARK OFFICE

REPLY UNDER 37 CFR § 1.111

Dear Sir:

In response to the Office Action dated June 4, 2002, please amend the application as follows and consider the included remarks.

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IN THE CLAIMS:

Please amend the claims as follows. (A marked up copy of the claims is provided as Appendix A).

1. (Three Times Amended) A composite reverse osmosis membrane comprising:
a porous support; and
a polyamide skin layer formed on the porous support, wherein a contact angle between
a surface of the polyamide skin layer and water is no more than 45°, sodium
chloride rejection is at least 98%, and a permeate flow rate is at least 0.7
m³/m² day when evaluated by using feed water which has pH 6.5, 0.05 weight %
of salt, an operation pressure of 5kgf/cm² and a temperature of 25° C.

5. (Twice Amended) The composite reverse membrane according to claim 1, wherein the
sodium chloride rejection is at least 98% and the permeate flow rate is at least 0.8 m³/m² day.